

FIG. 1

FIG. 2 (a) pYE22m / PINORESINOL

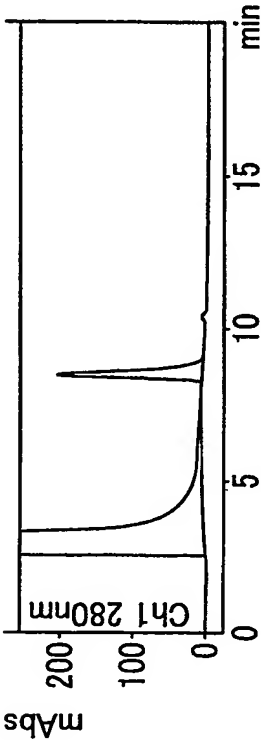


FIG. 2 (d) pYE22m / PIPERITOL

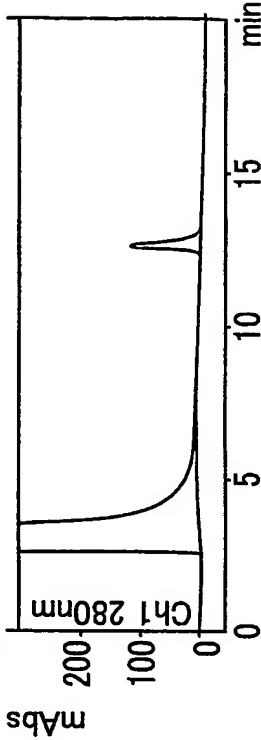


FIG. 2 (b) SiP189 / PINORESINOL

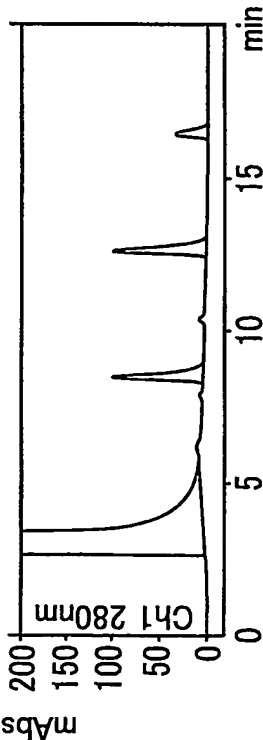


FIG. 2 (e) SiP189 / PIPERITOL

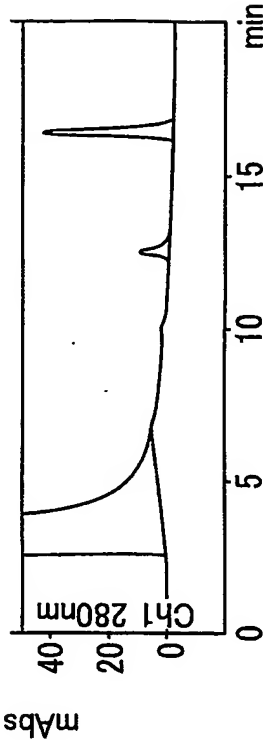


FIG. 2 (c) SiP189 / PINORESINOL

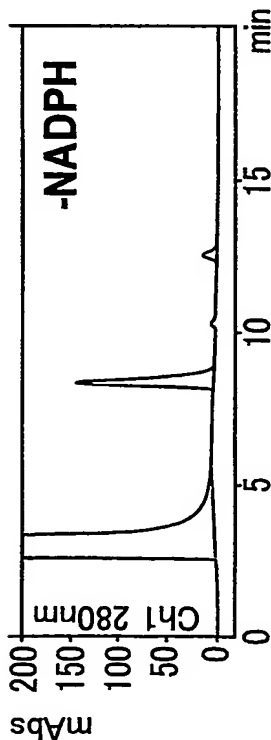
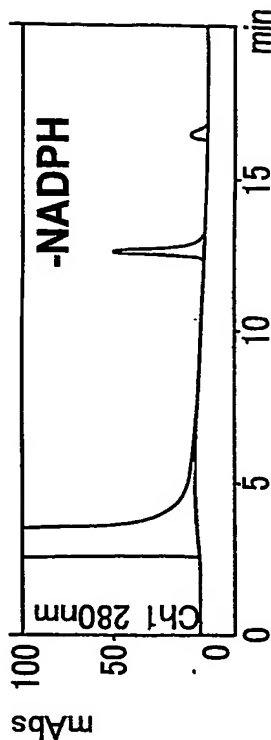
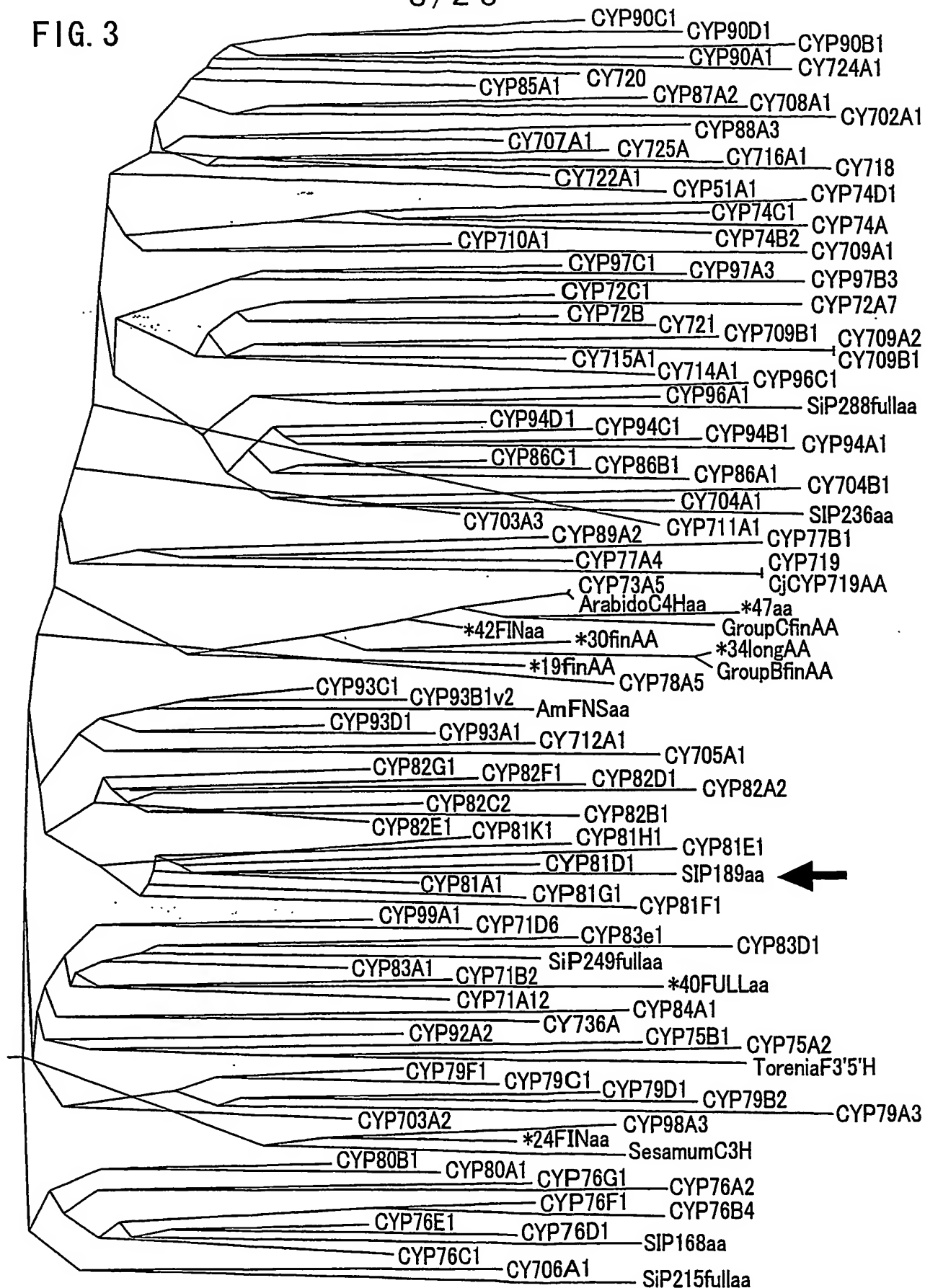


FIG. 2 (f) SiP189 / PIPERITOL



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FIG. 3



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FIG. 4

> Blastx Search (SST vs PIR)

Reference: Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schaffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Query= BXP184.2003.08.12
(1521 letters)

Database: pir1.fst; pir2.fst; pir3.fst; pir4.fst
283,329 sequences; 96,175,589 total letters

Searching.....done

| Sequences producing significant alignments: | Score (bits) | E Value |
|--|-----------------|------------|
| <u>T04730</u> (PIR) cytochrome P450 homolog F6G17.10 - Arabidopsis thal... | <u>494</u> | e-139 |
| <u>C85441</u> (PIR) cytochrome P450-like protein [imported] - Arabidopsis | <u>494</u> | e-139 |
| <u>T52174</u> (PIR) cytochrome P450 monooxygenase [imported] - Arabidopsis | <u>487</u> | e-137 |
| <u>B85441</u> (PIR) cytochrome P450-like protein [imported] - Arabidopsis | <u>481</u> | e-135 |
| <u>T04731</u> (PIR) cytochrome P450 homolog F6G17.20 - Arabidopsis thal... | <u>480</u> | e-135 |
| <u>T10896</u> (PIR) cytochrome P450 (EC 1.14.-.-) 81B1c - Jerusalem art... | <u>468</u> | e-131 |
| <u>A85441</u> (PIR) cytochrome P450-like protein [imported] - Arabidopsis | <u>464</u> | e-130 |
| <u>T00510</u> (PIR) probable cytochrome P450 At2g23220 [imported] - Ara... | <u>457</u> | e-128 |
| <u>T00513</u> (PIR) cytochrome P450 homolog At2g23190 - Arabidopsis tha... | <u>453</u> | e-127 |
| <u>B96691</u> (PIR) probable cytochrome P450 F28G11.4 [imported] - Arab... | <u>444</u> | e-124 |

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FIG. 5

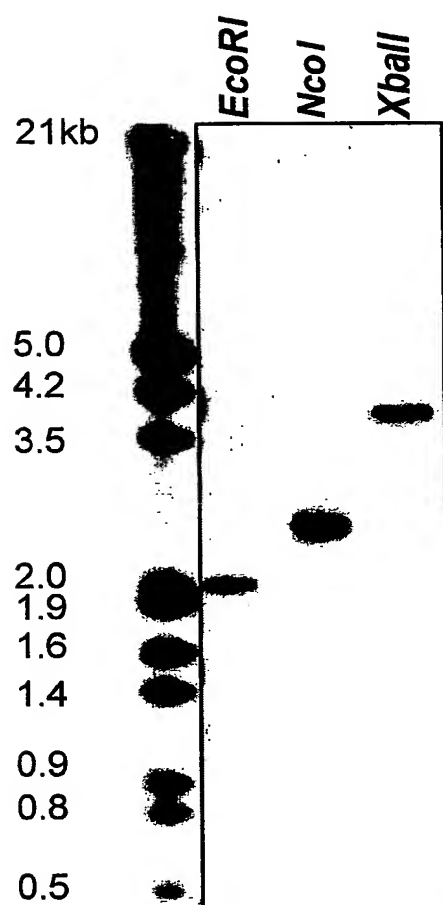


FIG. 6 (a) SrSiP189/ PINORESINOL

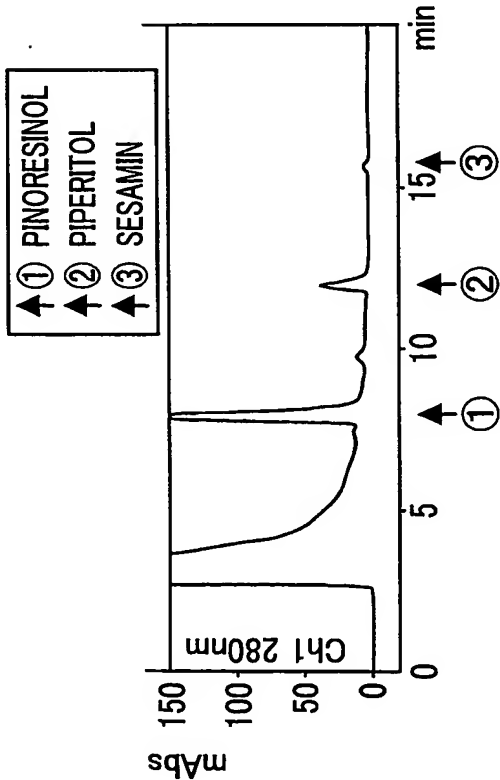


FIG. 6 (b) SrSiP189/ PIPERITOL

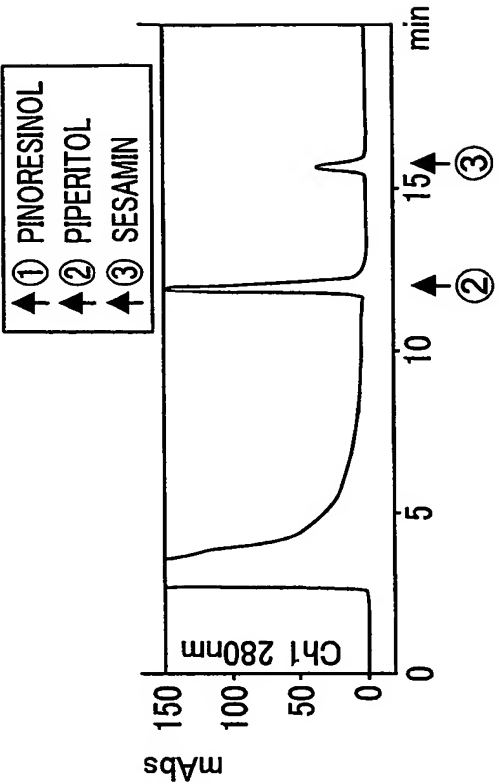


FIG. 6 (c) SrSiP189/ PINORESINOL

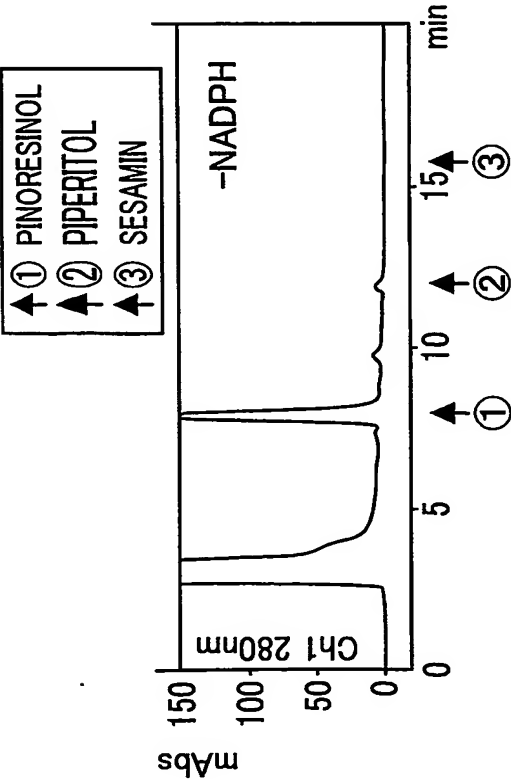
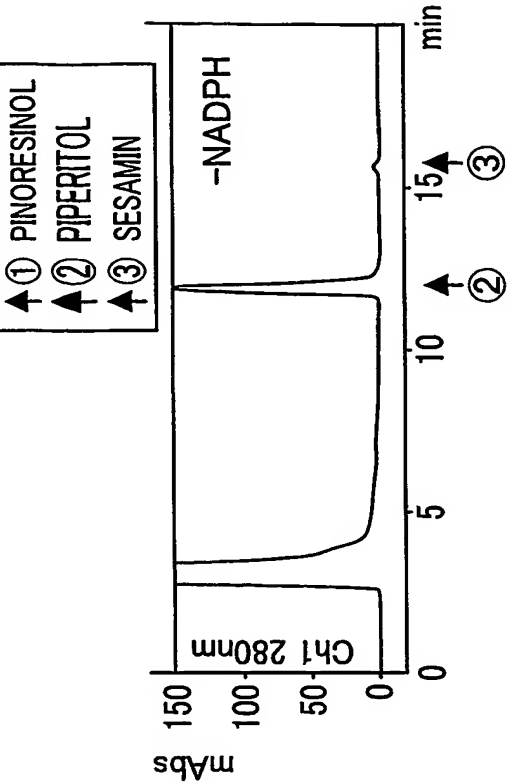


FIG. 6 (d) SrSiP189/ PIPERITOL



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FIG. 7

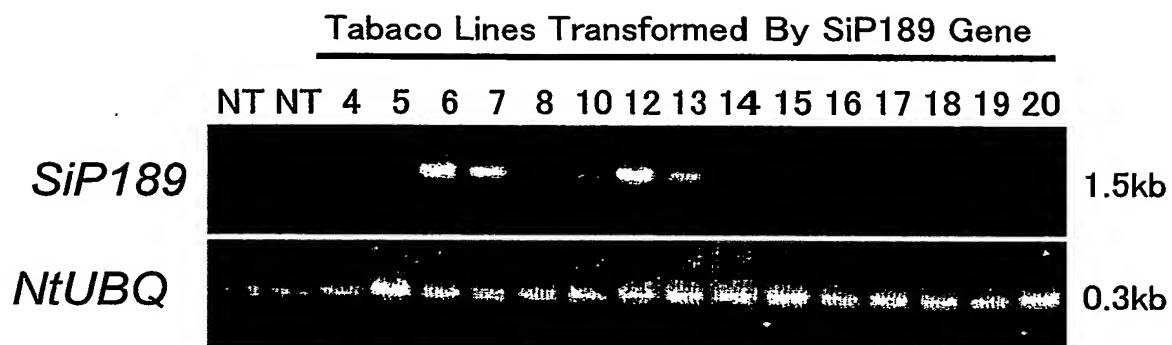


FIG. 8(a)

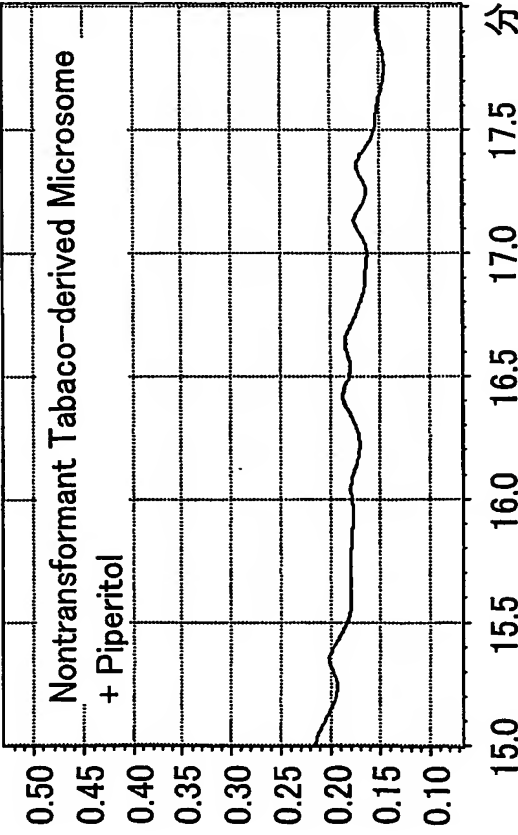


FIG. 8(b)

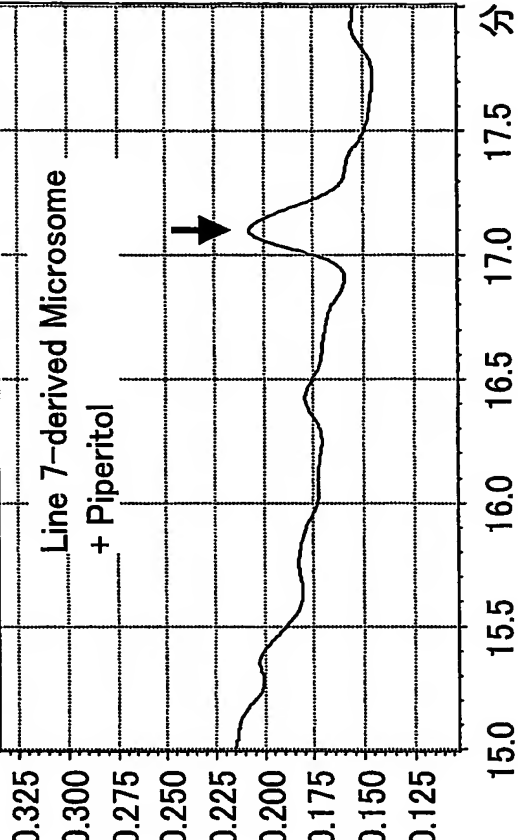


FIG. 8(c)

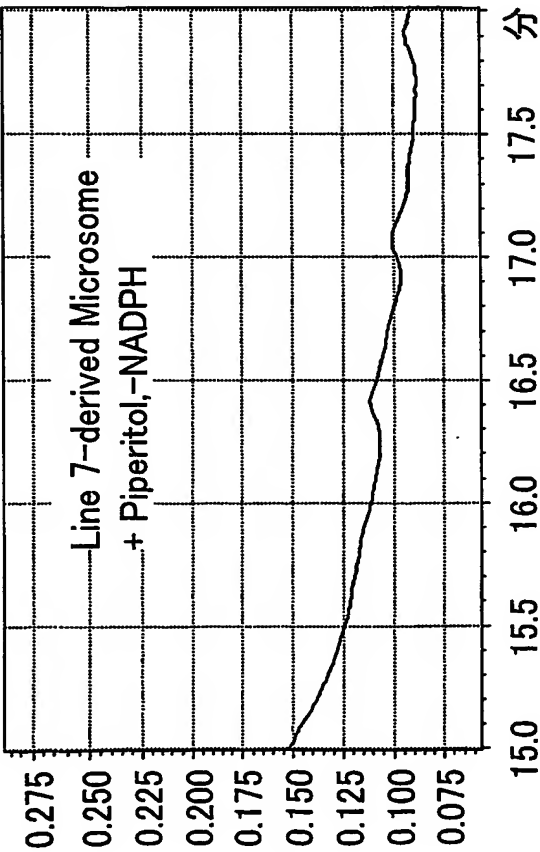


FIG. 8(d)

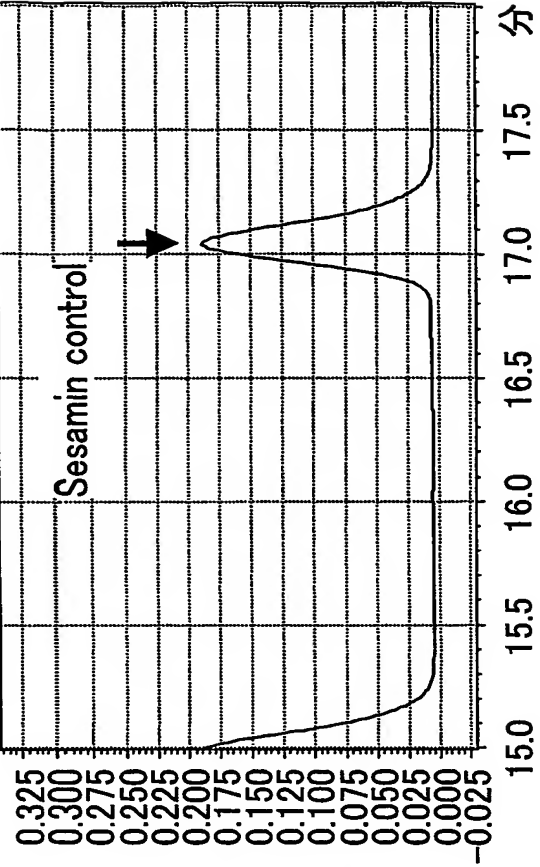
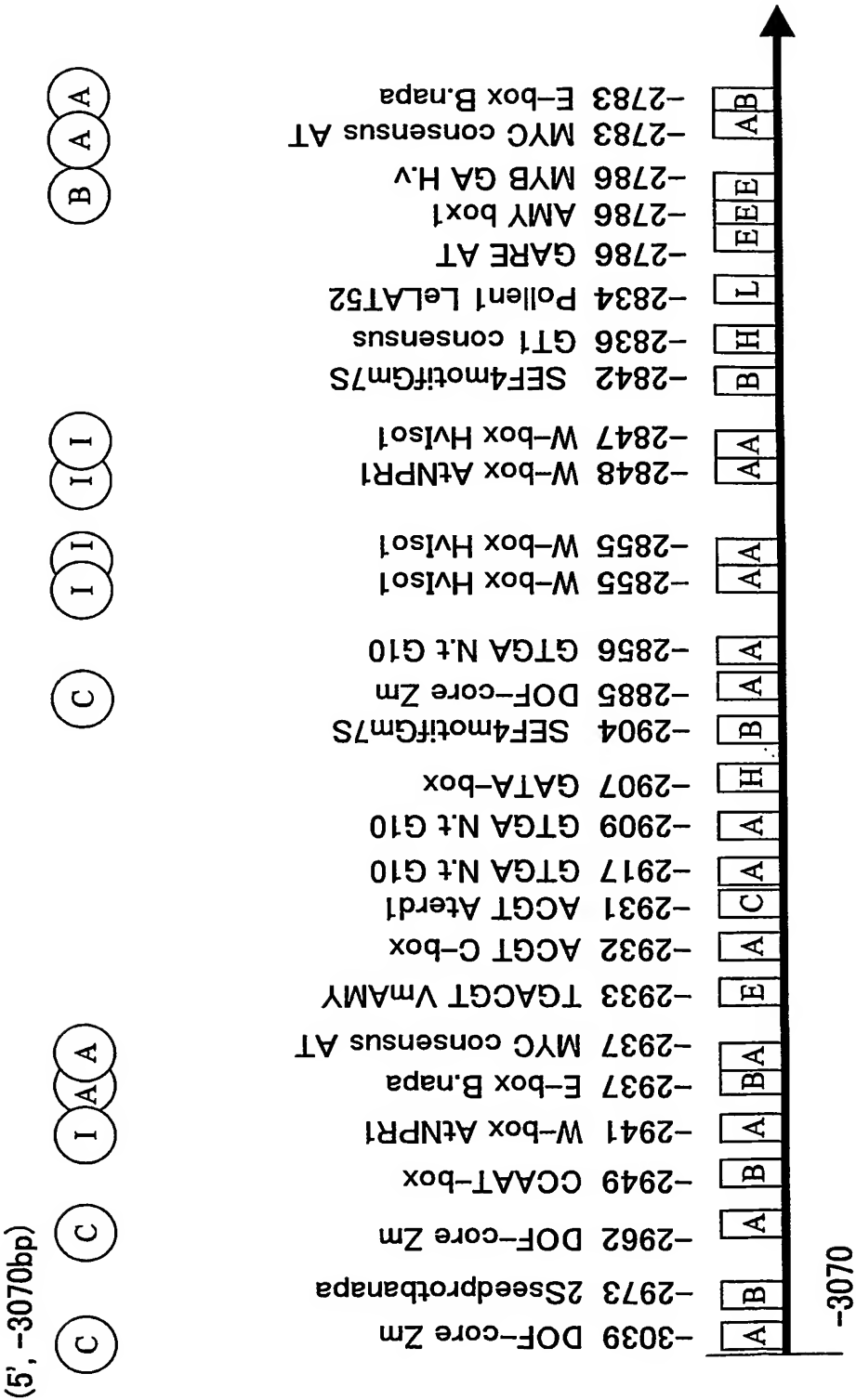
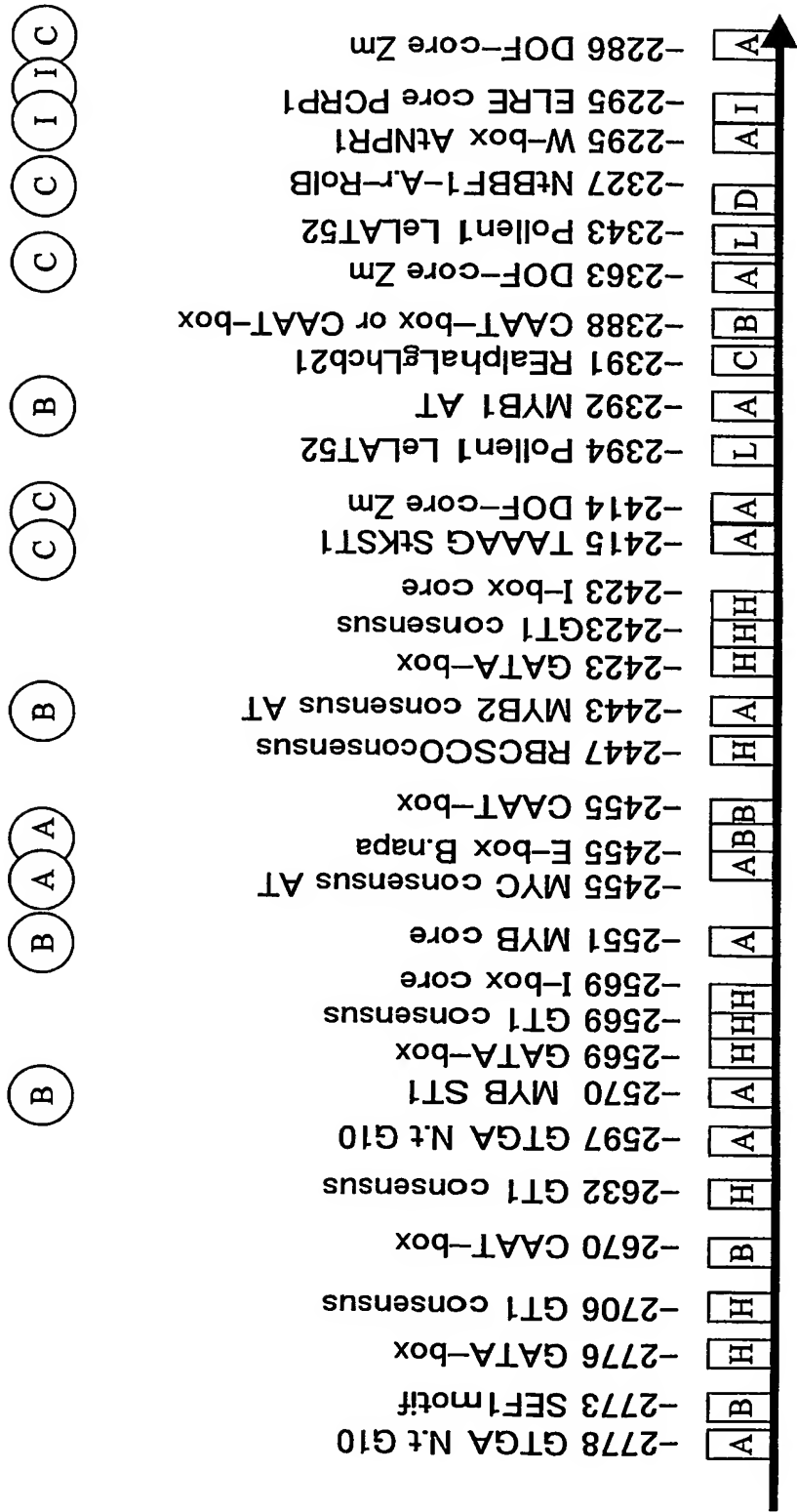


FIG. 9(A)



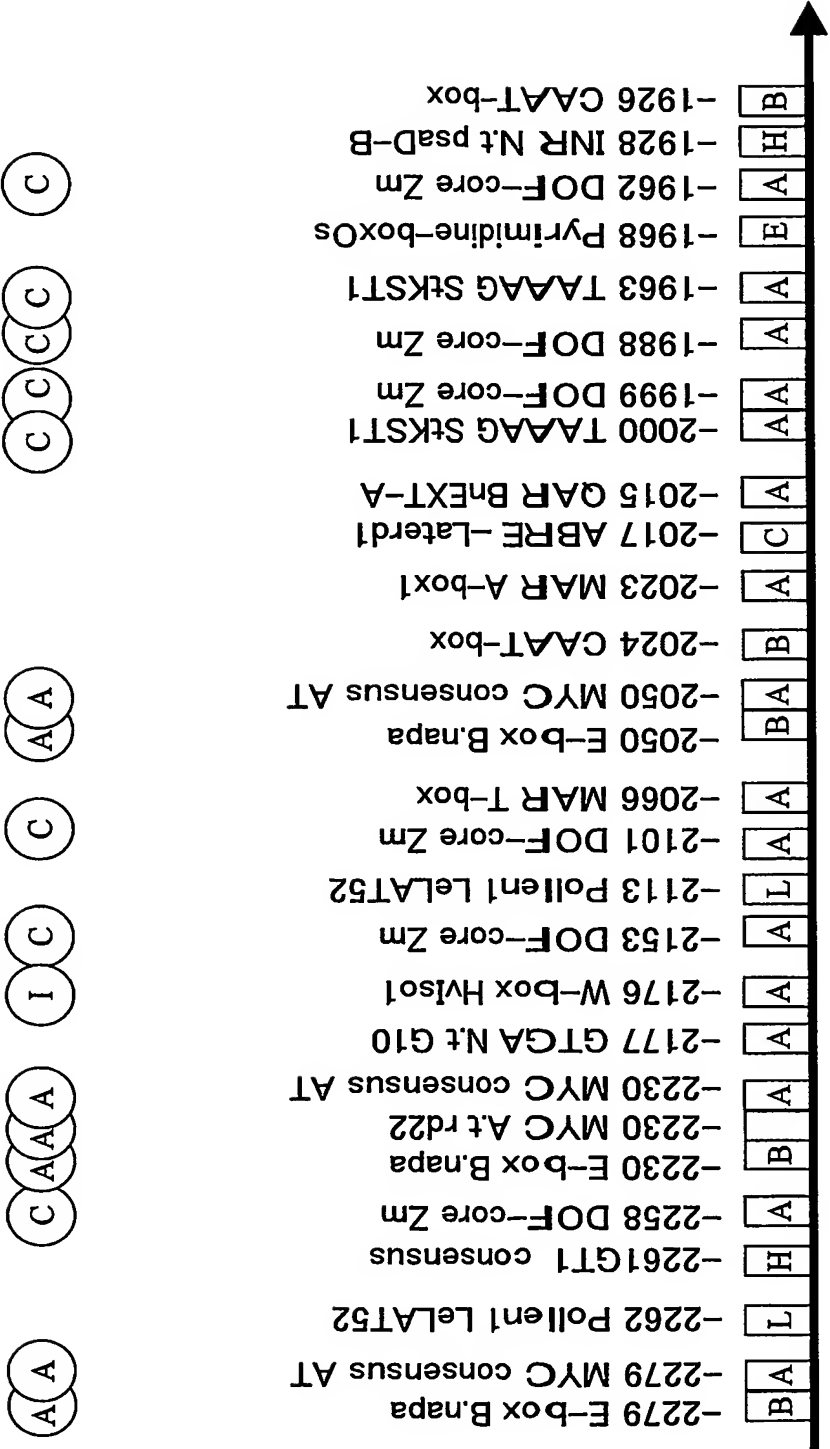
9 2 / 0 1

FIG. 9(B)



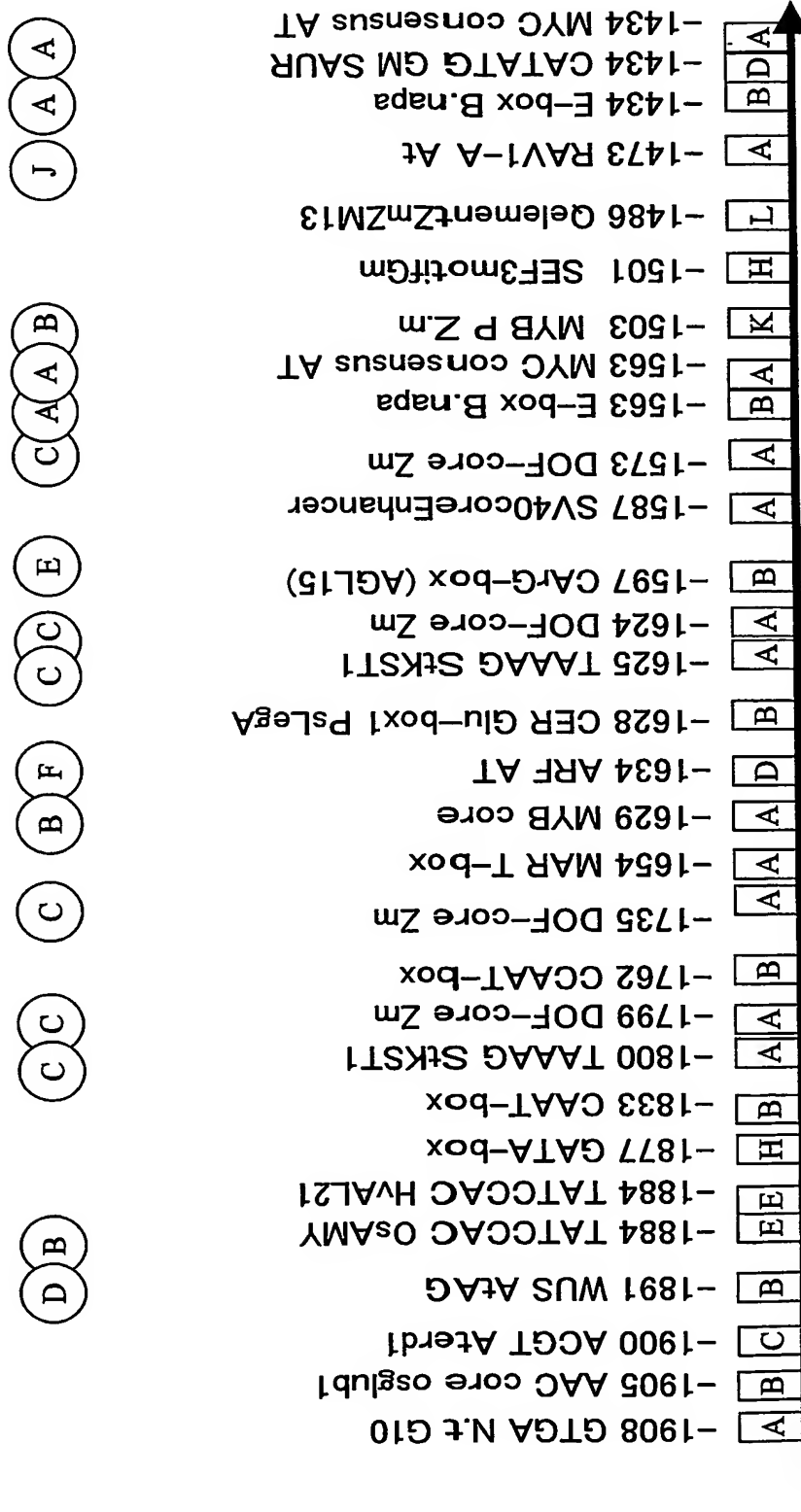
9 1 / 1 2 6

FIG. 9(G)



9 2 / 2 1

FIG. 9(D)



1 3 / 2 6

FIG. 9(E)

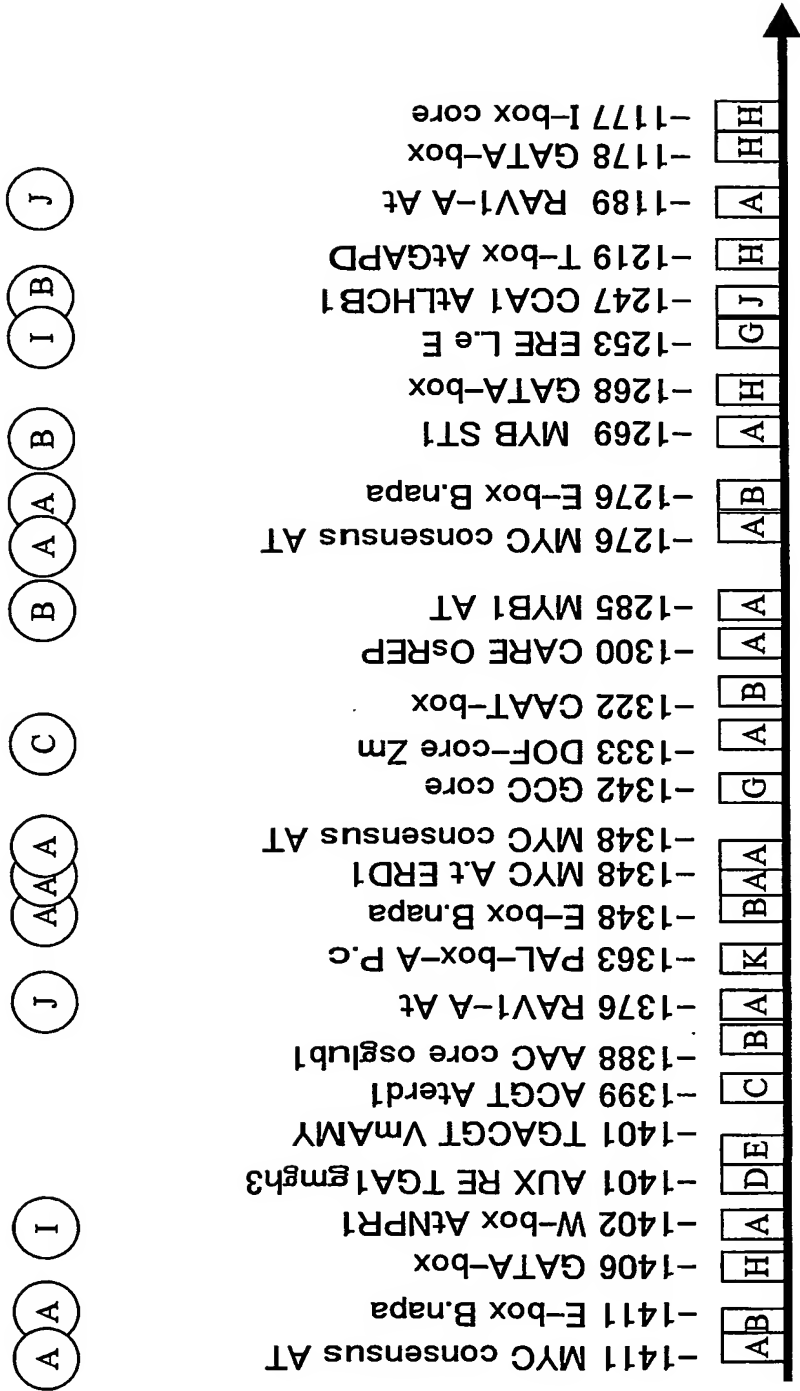
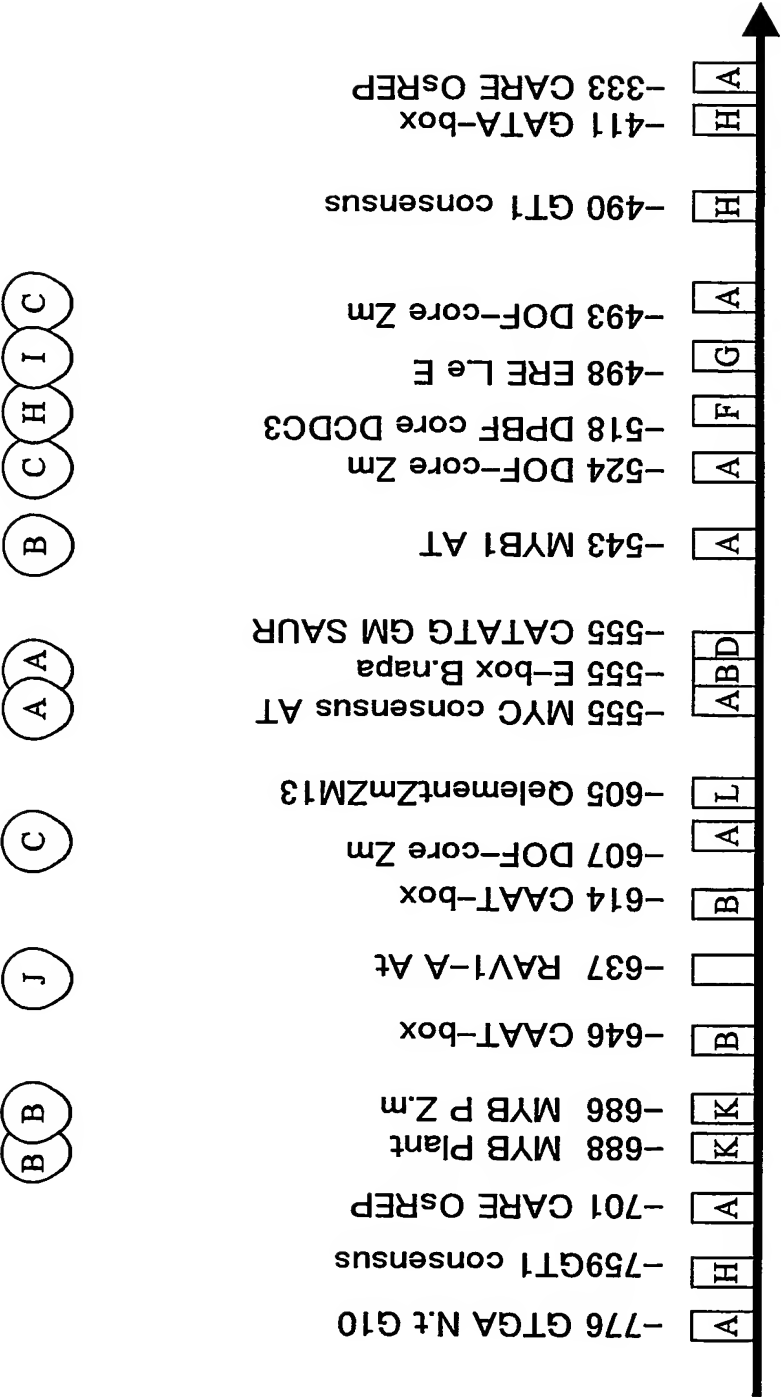


FIG. 9(F)



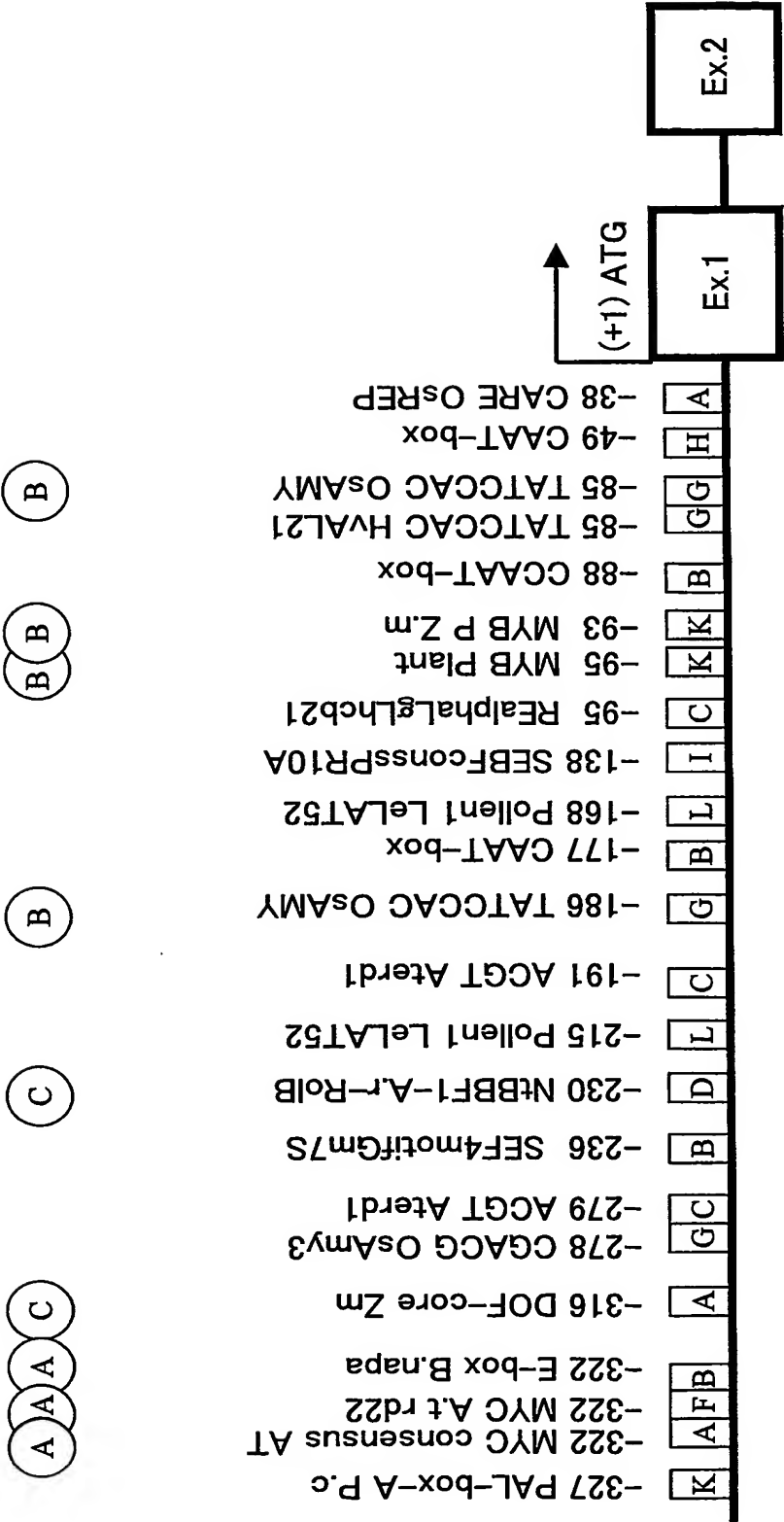
1 5 / 2 6

FIG. 9 (G)



1 6 / 2 6

FIG. 9(H)



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FIG. 10

Putative Physiological response

- A Unknown
- B Seed/endosperm/embryo-related
- C Etiolation-related
- D Auxin-related
- E GA/amylase-related
- F ABA-related
- G Ethylen-related
- H Light-regulated
- I Pathogenesis-related
- J Circadian clock-regulated
- K Secondary metabolism-related
- L Pollen development

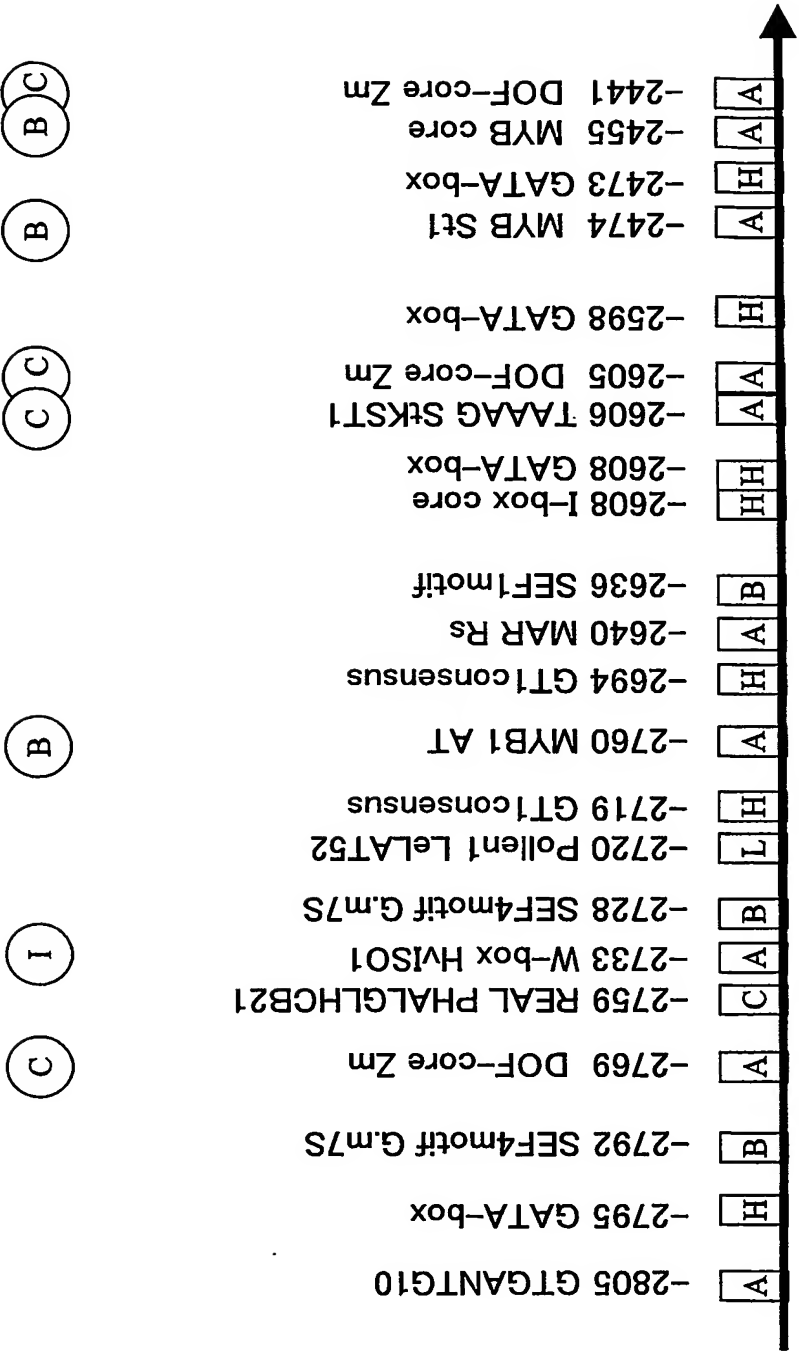
Putative structure of target *trans*-factor

- A Myc (bHLH class)
- B Myb
- C Zinc Finger (Dof class)
- D Homeobox
- E MADS
- F ARF
- G Leucine Zipper (TGA class)
- H bZIP (DPBF class)
- I WRKY
- J AP2-domain (RAV class)

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FIG. 11 (A)

2815bp



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FIG. 11 (B)

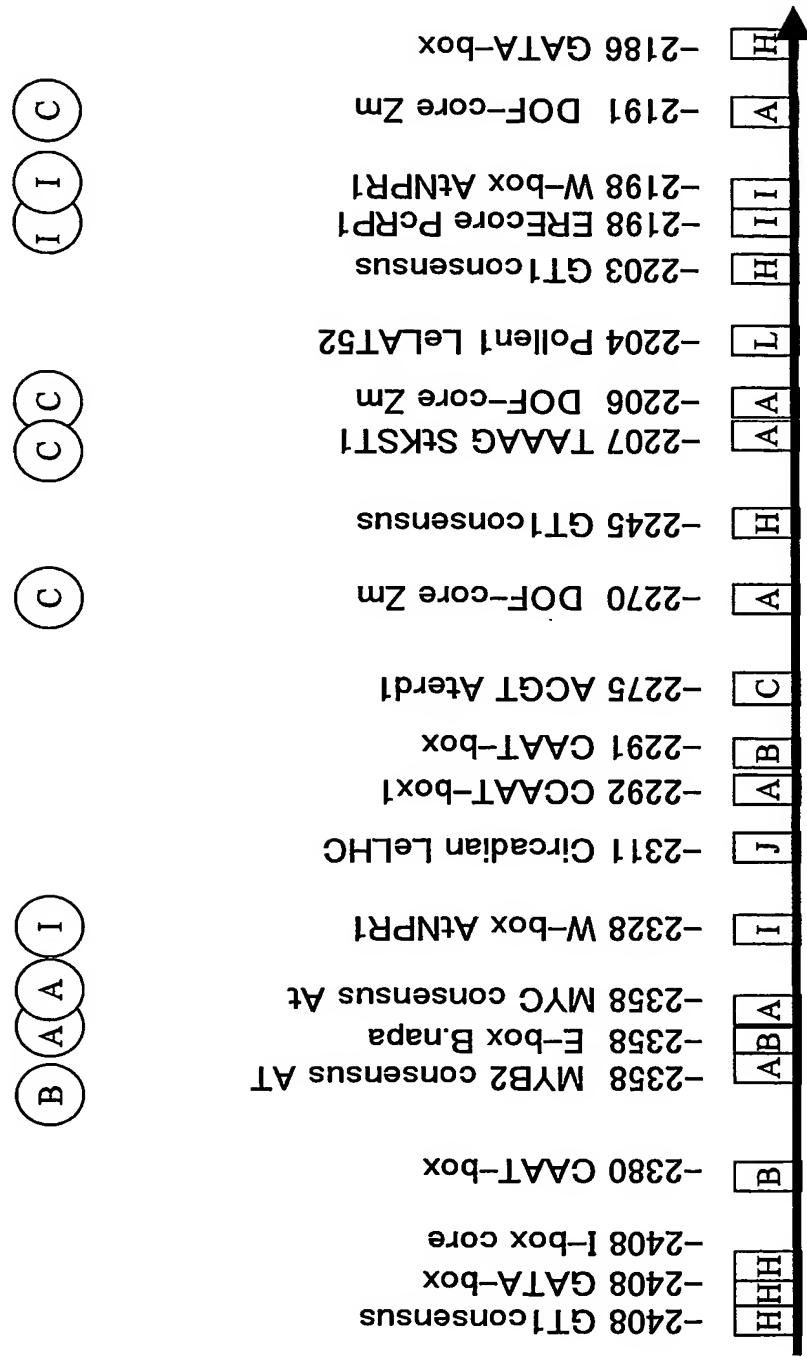
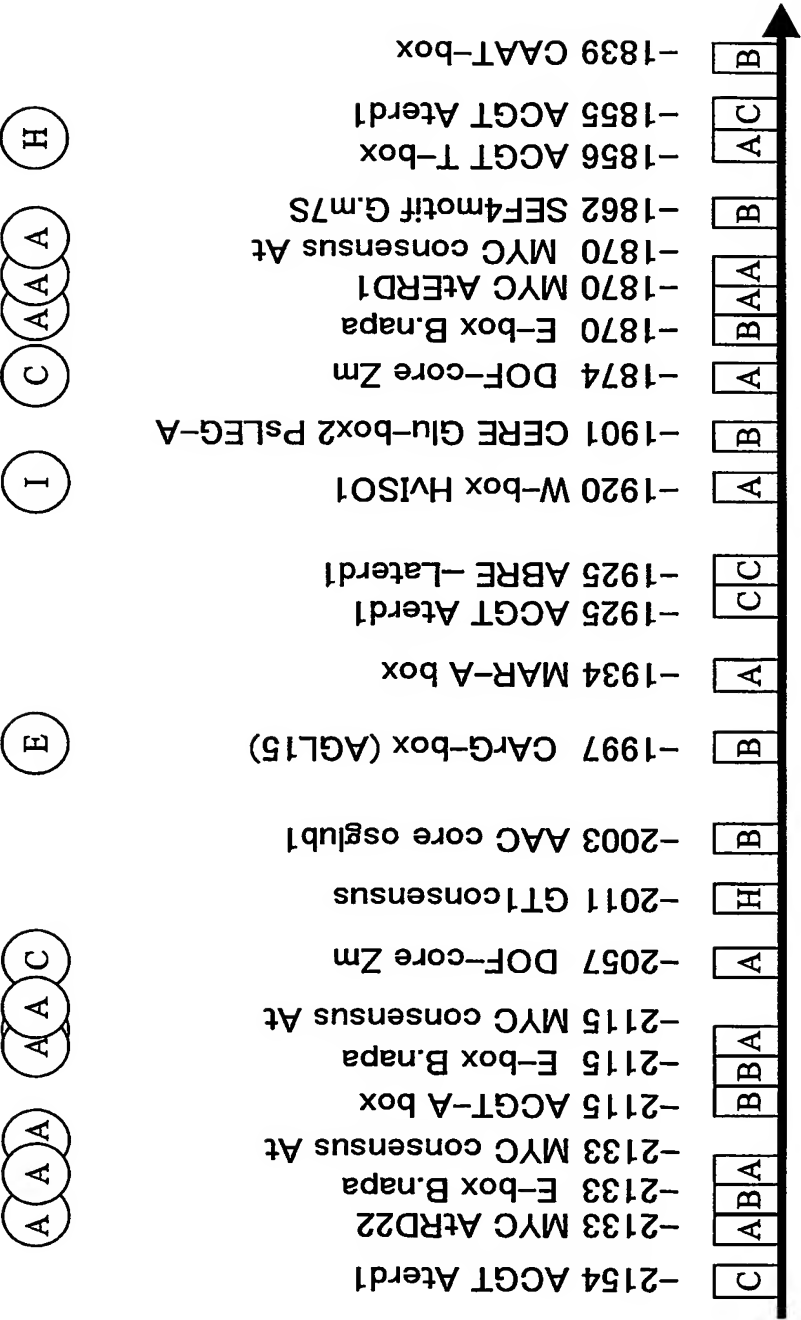


FIG. 11 (C)



9 2 / 1 2

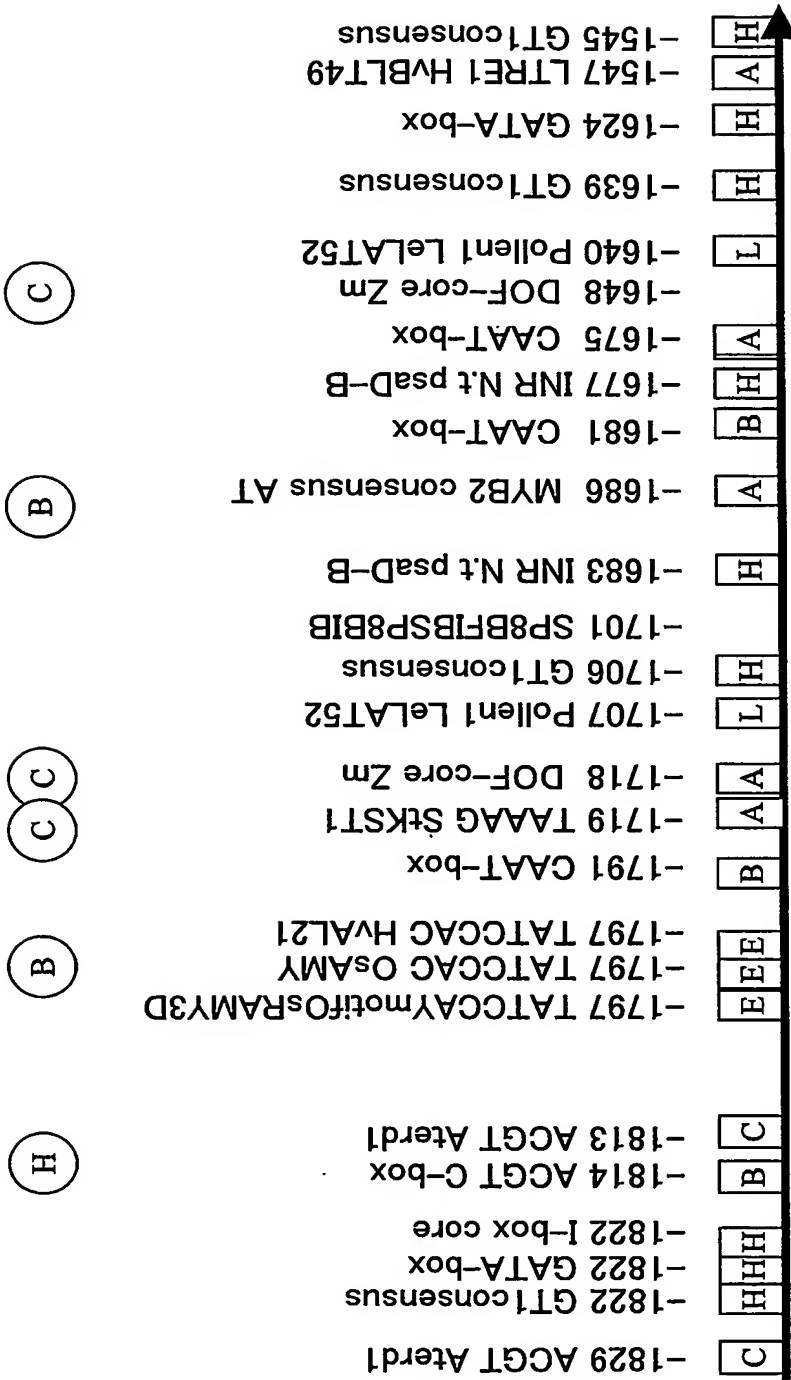
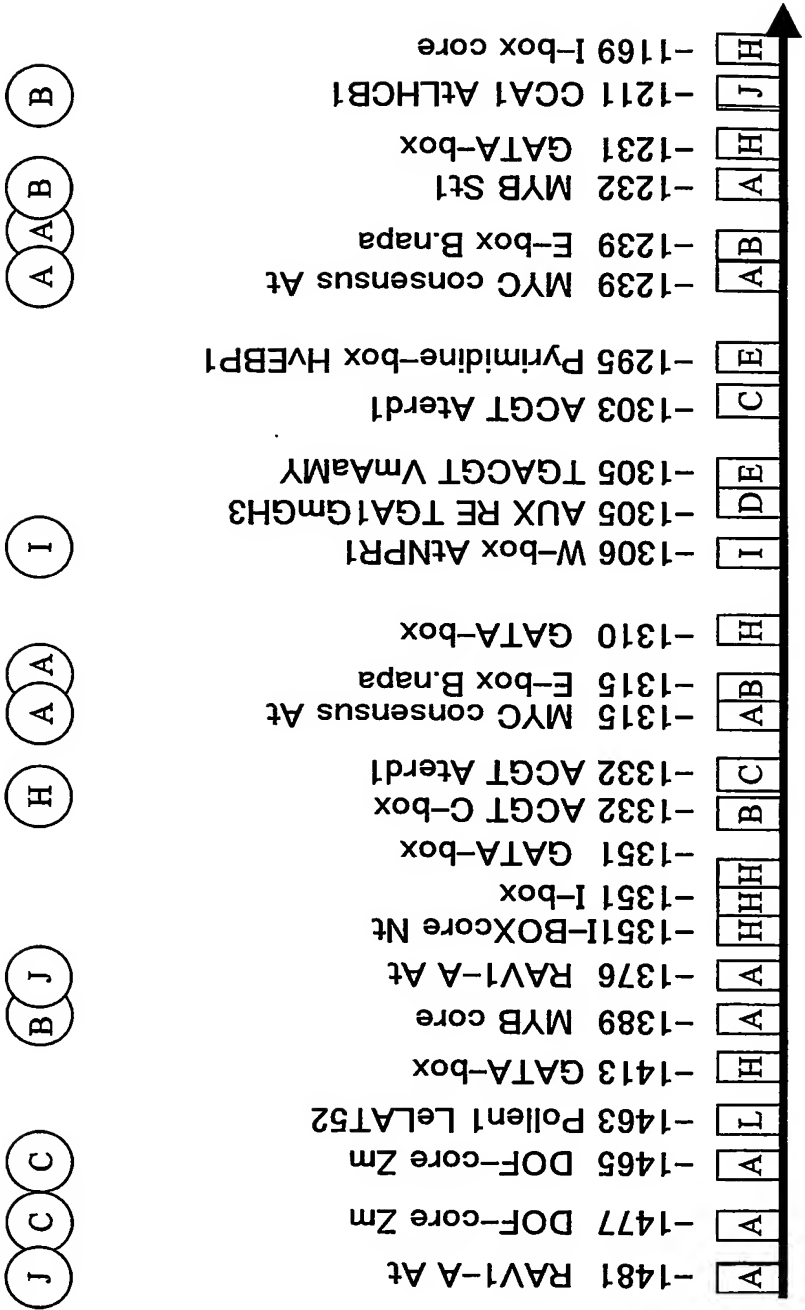


FIG. 11(D)

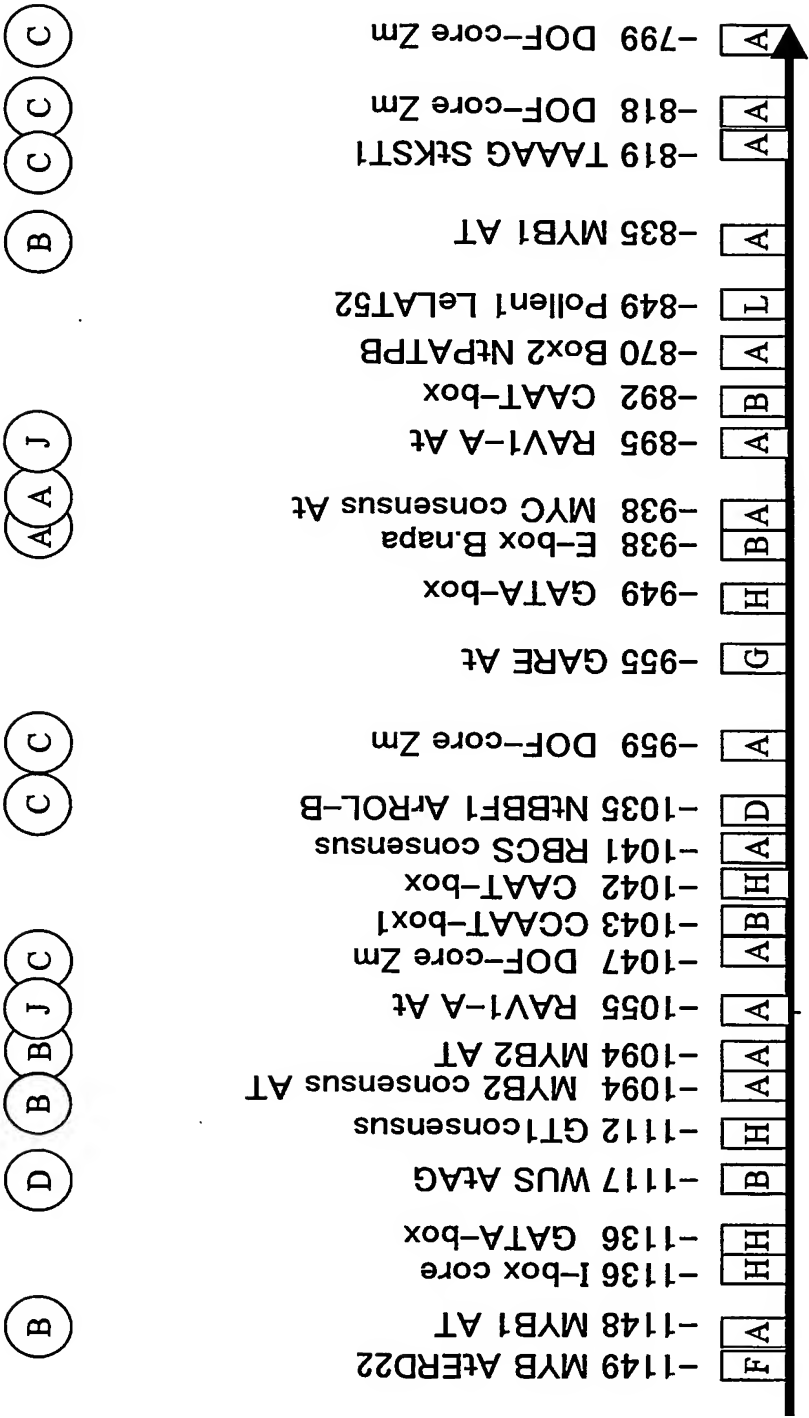
9 2 / 2 2

FIG. 11 (E)



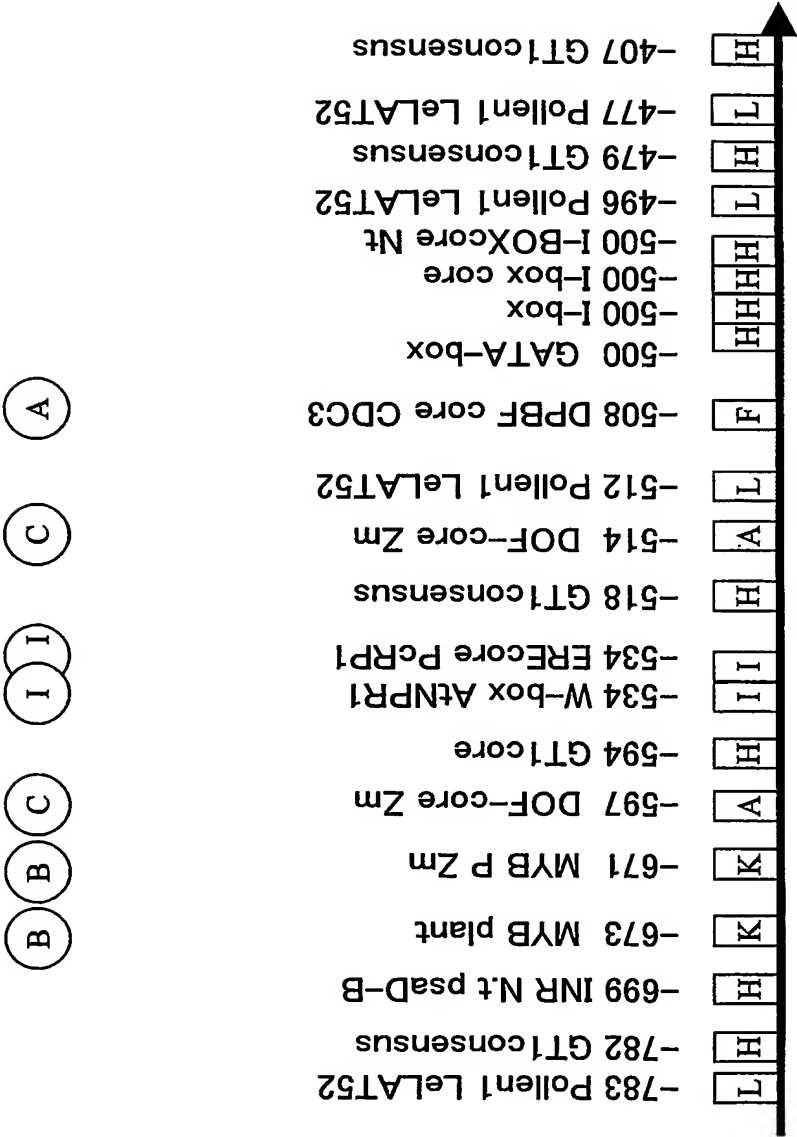
2 3 / 2 6

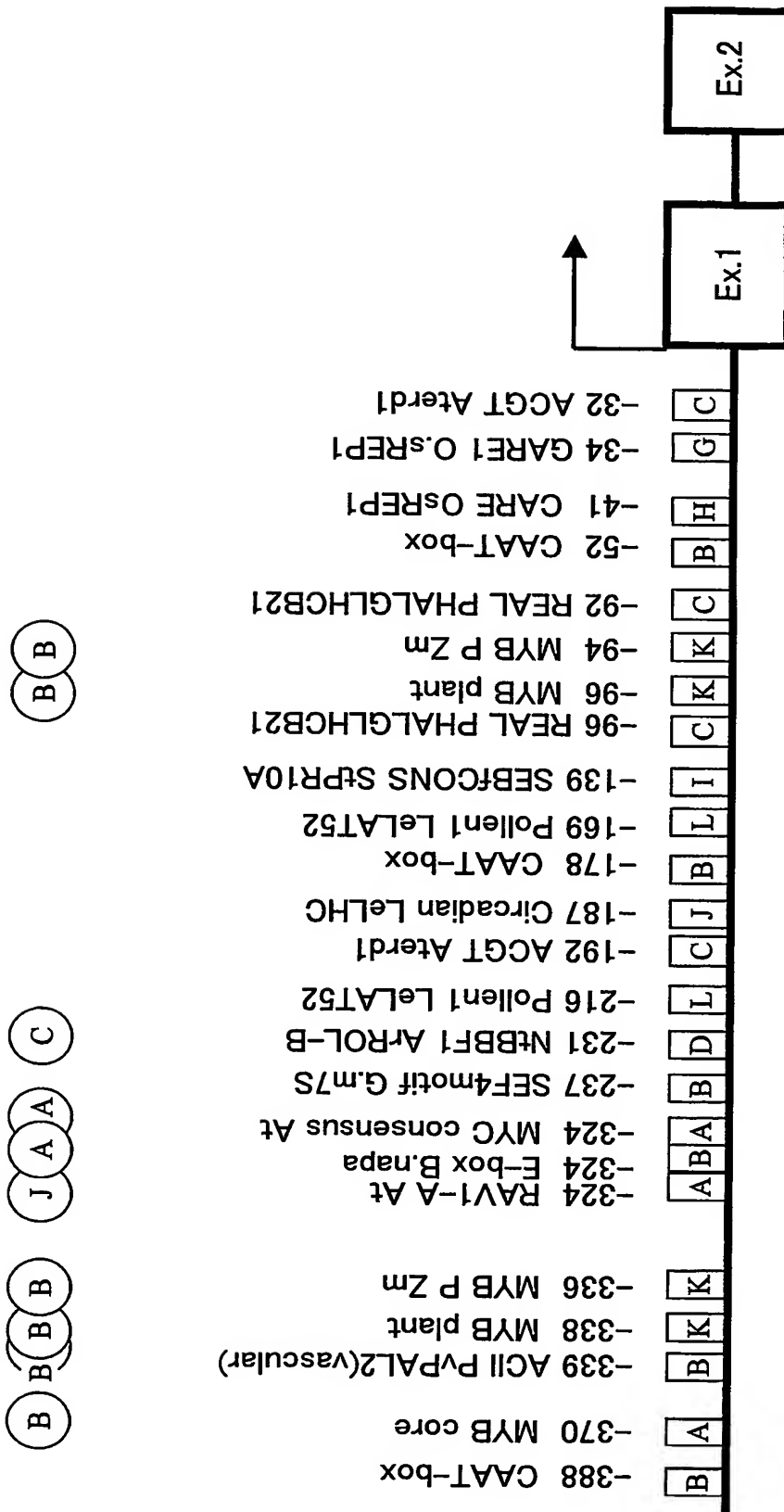
FIG. 11 (F)



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FIG. 11 (G)





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FIG. 12(a)

1st Intron of SST (*S.indicum*)

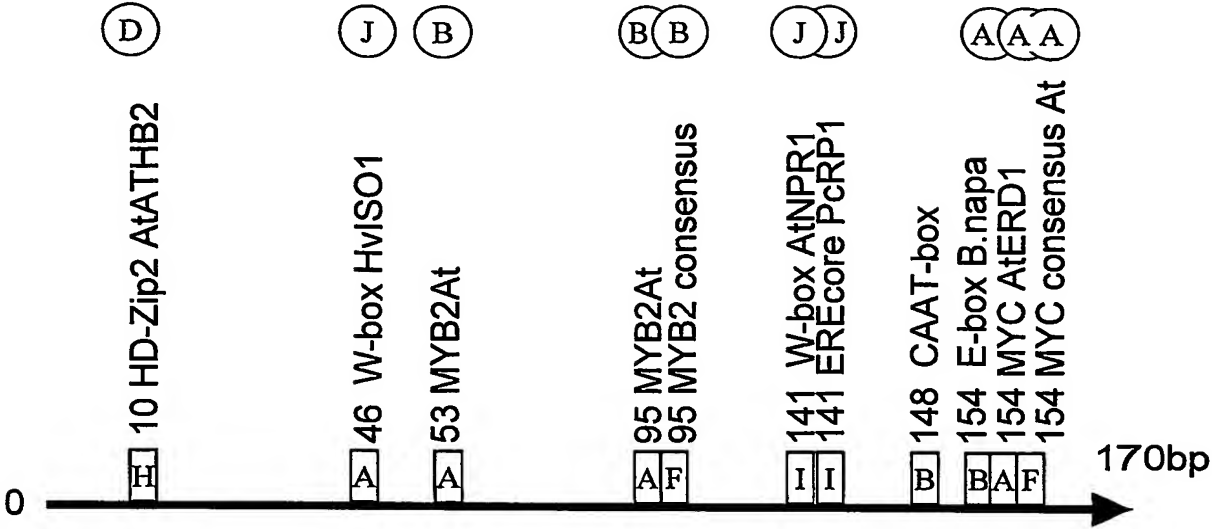


FIG. 12(b)

1st Intron of SrSST (*S.radiatum*)

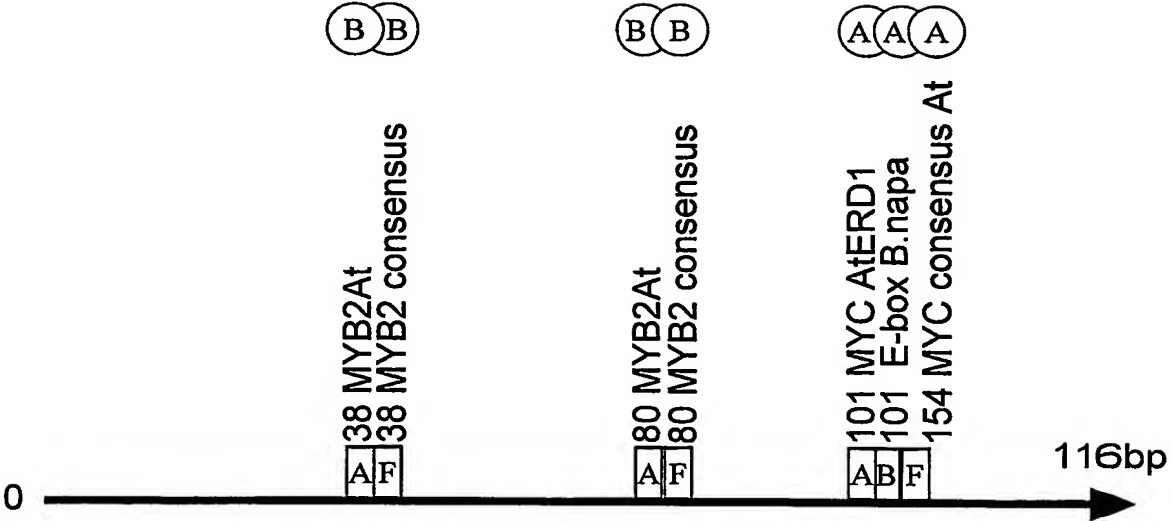


FIG. 12(c)

